

## **High School Dual Credit Online Application & Advising Tools**

Since the start of the High School Dual Credit (HSDC) program in Fall 2014, campuses have used a paper application for processing HSDC students. While this was manageable initially, the program has grown at a rapid rate, and processing paper applications and entering data for every single student has become infeasible. RIS created an online HSDC application, which is a derivative of the current common application used for admitting traditional degree-seeking students. When students fill out the application, their information is transferred straight into Colleague, the common Student Information System (SIS) used by the SDBOR. Students will still need to submit a participation form to the campuses that is signed by their parent/and a high school representative.

One other development that has been in production over the last year is the creation of Advisory Tracks. These are consistent with the Exploratory Studies programs at SDSU and BHSU which seek to cluster undeclared students into a set of advisory tracks to help them select a specific degree program. Advising for these exploratory studies programs also ensure that students are enrolling in the appropriate prerequisite courses to ensure they complete their program of study on time and without wasted credit hours. Programs across the System were combined into six Advisory Tracks, which provide a list of courses serve as a solid starting point for their projected major. The advising materials include an example plan of study with suggested courses including a description of how it will meet each of the General Education goals. Students are prompted throughout the document to engage with university advisors for the best information on what courses would be right for them or any future program they are interested in pursuing. The advisory tracks and associated materials were vetted through a workgroup consisting of HSDC committee members and advisors across the system. The six advisory tracks are:

1. Business & Management
2. Education & Social Sciences
3. Engineering, Technology & Math
4. Health Sciences
5. Humanities, Fine Arts & Design
6. Natural Sciences & Agriculture

These two initiatives look to improve the HSDC program and make it more efficient for students and campus staff. With the online application, unnecessary data entry time will be saved as student information will be directly uploaded to Colleague from the Common Application administration database. Prior to the online application, all student information had to be manually entered into Colleague. Second, the Advisory Tracks materials will allow students to make better registration decisions, and will also help school counselors who are asked to advice students during the course selection process. Postings on counselor listserves and from campus personnel reinforce that students enroll in duplicative dual credit courses having already met the requirements for specific General Education goals. That means that while these credits may still count, they only count if students enroll in a program with free electives. The overall goal is for these materials to assist students in the course selection process and point them appropriate advising resources on our campuses.

## **MAJORS FOR STUDENTS EXPLORING DEGREES IN HEALTH SCIENCES**

Are you interested in the health sciences? Here is a list of available majors at SDBOR institutions.

### **BLACK HILLS STATE UNIVERSITY**

- Exercise Science
- Applied Health Science (Pre-Nursing)
- Pre-Medicine
- Pre-Physical Therapy
- Pre-Occupational Therapy
- Pre-Chiropractic
- Pre-Dentistry
- Pre-Veterinary
- Pre-Optometry
- Pre-Pharmacy

### **DAKOTA STATE UNIVERSITY**

- Exercise Science
- Respiratory Care

### **NORTHERN STATE UNIVERSITY**

- Chiropractic Health Care
- Human Performance and Fitness
- Medical Laboratory Science
- Mortuary Science
- Pre-Athletic Training
- Pre-Nursing

### **SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY**

- Pre-Professional Health Sciences

### **SOUTH DAKOTA STATE UNIVERSITY**

- Athletic Training
- Exercise Science
- Food Science
- Health Education
- Medical Laboratory Science
- Nursing
- Nutrition & Dietetics
- Pharmacy
- Pre-Chiropractic
- Pre-Dental
- Pre-Medicine
- Pre-Mortuary
- Pre-Occupational Therapy
- Pre-Optometry
- Pre-Physical Therapy
- Pre-Physician Assistant

### **THE UNIVERSITY OF SOUTH DAKOTA**

- Medical Biology
- Kinesiology and Sport Science
- Addiction Studies
- Dental Hygiene
- Health Sciences
- Medical Laboratory Science
- Nursing
- Social Work
- Pre-Medicine
- Pre-Physical Therapy
- Pre-Physician Assistant
- Pre-Occupational Therapy
- Pre-Chiropractic
- Pre-Dentistry
- Pre-Veterinary
- Pre-Optometry
- Pre-Pharmacy
- Pre-Podiatry

## COURSE RECOMMENDATIONS FOR STUDENTS EXPLORING DEGREES IN HEALTH SCIENCES

Reduce the time to graduation by only taking the courses necessary to complete a degree. Below are a few recommended courses for students exploring careers in the health sciences. These are to be viewed as suggestions; other course options compatible with this track are listed on page 3.

Consult university advisors at the university you plan to attend for appropriate placement based on test scores, high school preparation & potential major.



ENGL 101— Composition I



ENGL 201— Composition II



SPCM 101—Fundamentals of Speech



PSYC 101—General Psychology



HDFS 210—Lifespan Development

OR



SOC 100—Introduction to Sociology



ENGL 210—Introduction to Literature



PHIL 220—Introduction to Ethics



MATH 102—College Algebra *(or appropriate math course based on placement)*  
OR MATH 281/STAT 281—Introduction to Statistics

In most cases, it is best for high school students to exhaust the math curriculum at their high school before moving on to dual credit math courses.



CHEM 106/L—Chemistry Survey & Lab OR  
CHEM 112/L—General Chemistry I & Lab



CHEM 107/L—Organic & Biochemistry Survey & Lab



CHEM 108/L—Chemistry Survey II & Lab OR  
CHEM 114/L—General Chemistry II & Lab  
*(after completing CHEM 106 or CHEM 112)*

Consulting university advisors is critical for determining which science sequence will be best for your desired major. Sciences courses should be completed in sequence. Often, students looking to major in science-based majors are better served by taking lab science courses face-to-face in an actual lab, so dual credit may not be the best option for some students.



Recommended. Inquire whether your institution requires this course for your degree.

These course recommendations fulfill the following general education requirements:



Written Communication



Oral  
Communication



Social Sciences



Arts & Humanities



Mathematics



Natural Sciences



# COURSE OPTIONS FOR ATTACHMENT III 19

## STUDENTS EXPLORING DEGREES IN HEALTH SCIENCES

Reduce the time to graduation by only taking the courses necessary to complete a degree. Below is a list of possible courses to fulfill general education requirements for students exploring careers in the health sciences.

Consult university advisors at the university you plan to attend for appropriate placement based on test scores, high school preparation & potential major.



### Goal #1: Written Communication *(Students must take two courses, including ENGL 101)*

- ENGL 101—Composition I *(If attending SDSMT, only ENGL 101 is needed)*
- ENGL 201—Composition II
- ENGL 283—Introduction to Creative Writing



### Goal #2: Oral Communication

- SPCM 101—Fundamentals of Speech *(Course not needed if attending SDSMT)*



### Goal #3 Social Sciences *(Pick 2 courses from two different disciplines.)*

- |   |                                      |
|---|--------------------------------------|
| • CJUS 201—Introduction to Criminal Justice | • POLS 100—American Government*      |
| • ECON 201—Principles of Microeconomics     | • POLS 250—World Politics            |
| • ECON 202—Principles of Macroeconomics     | • PSYC 101—General Psychology*       |
| • HDFS 210—Lifespan Development*            | • SOC 100—Introduction to Sociology* |
| • HIST 151—United States History I          | • SOC 150—Social Problems            |
| • HIST 152—United States History II         |                                      |

\*These courses are recommended for Nursing, Dental Hygiene, Health Sciences, Medical Biology, & Social Work majors.



### Goal #4: Arts & Humanities *(Pick 2 courses from two different disciplines)*

- |   |                                     |
|---|-------------------------------------|
| • ART 121—Design I 2D                   | • PHIL 220—Introduction to Ethics*  |
| • ARTH 100—Art Appreciation             | • REL 250—World Religions           |
| • ARTH 211—History of World Art I       | • GFA 101—Introduction to Fine Arts |
| • ARTH 212—History of World Art II      | • MUS 100—Music Appreciation        |
| • ENGL 210—Introduction to Literature   | • THEA 100—Introduction to Theatre  |
| • MCOM 151—Intro to Mass Communications | • THEA 201—Film Appreciation        |

\*This course is required for nursing majors.



### Goal #5: Mathematics

- MATH 102—College Algebra *(or appropriate math course based on placement)*
- MATH 281/STAT 281—Introduction to Statistics

In most cases, it is best for high school students to exhaust the math curriculum at their high school before moving on to Dual Credit math courses.



### Goal #6: Natural Sciences *(Students will need at least 6 credits)*

- |  |   |
|--|---|
| • BIOL 151/L—General Biology I & Lab   | • CHEM 112/L—General Chemistry I & Lab  |
| • BIOL 153/L—General Biology II & Lab  | • CHEM 114/L—General Chemistry II & Lab<br><i>(after completing CHEM 112/L)</i> |
| • CHEM 106/L—Chemistry Survey & Lab  | • PHYS 111/L—Introduction to Physics I & Lab                                    |
| • CHEM 107/L—Organic & Biochemistry Survey & Lab<br><i>(after completing CHEM 106/L)</i> | • PHYS 113/L—Introduction to Physics II & Lab                                   |
| • CHEM 108/L—Chemistry Survey II & Lab<br><i>(after completing CHEM 106/L)</i>           |   |

Consulting university advisors is critical for determining which science sequence will be best for your desired major. Sciences courses should be completed in sequence.

Often, students looking to major in science-based majors are better served by taking lab science courses face-to-face in an actual lab, so dual credit may not be the best option for some students.

# **MAJORS FOR STUDENTS EXPLORING DEGREES IN ENGINEERING, TECHNOLOGY & MATH**

Are you interested in engineering, technology or math? Here is a list of available majors at SDBOR institutions.

## **BLACK HILLS STATE UNIVERSITY**

- Engineering Technology
- Exercise Science
- Mathematics
- Mathematics & Science Education

## **DAKOTA STATE UNIVERSITY**

- Biology for Information Systems
- Business Technology
- Computer Game Design
- Computer Science
- Cyber Operations
- Information Systems
- Mathematics for Information Systems
- Network and Security Administration

## **NORTHERN STATE UNIVERSITY**

- Mathematics
- Mathematics Education
- Pre-Engineering

## **SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY**

- Applied and Computational Mathematics
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Geological Engineering
- Industrial Engineering and Engineering Management
- Science, Technology, and Society
- Mechanical Engineering
- Metallurgical Engineering
- Mining Engineering
- Physics

## **SOUTH DAKOTA STATE UNIVERSITY**

- Agricultural and Biosystems Engineering
- Agricultural Systems Technology
- Aviation
- Biotechnology
- Civil Engineering
- Computer Science
- Electrical Engineering
- Electronics Engineering Technology
- Mathematics
- Mechanical Engineering
- Operations Management
- Precision Agriculture


## **THE UNIVERSITY OF SOUTH DAKOTA**

- Computer Science
- Mathematics
- Physics


# COURSE RECOMMENDATIONS FOR STUDENTS EXPLORING DEGREES IN ENGINEERING, TECHNOLOGY & MATH

Reduce the time to graduation by only taking the courses necessary to complete a degree. Below are a few recommended courses for students exploring careers in engineering, technology, or math. These are to be viewed as suggestions; other course options compatible with this track are listed on page 3.


Consult university advisors at the university you plan to attend for appropriate placement based on test scores, high school preparation & potential major.




ENGL 101— Composition I




ENGL 201— Composition II



SPCM 101—Fundamentals of Speech




PSYC 101—General Psychology




POLS 100—American Government


OR




SOC 100—Introduction to Sociology





ENGL 210—Introduction to Literature




MUS 100—Music Appreciation





MATH 102—College Algebra *(or appropriate math course based on placement)*  
OR MATH 281/STAT 281—Introduction to Statistics







CHEM 106/L—Chemistry Survey & Lab OR  
CHEM 112/L—General Chemistry I & Lab








CHEM 107/L—Organic & Biochemistry Survey & Lab



CHEM 108/L—Chemistry Survey II & Lab OR  
CHEM 114/L—General Chemistry II & Lab  
*(after completing CHEM 106)*





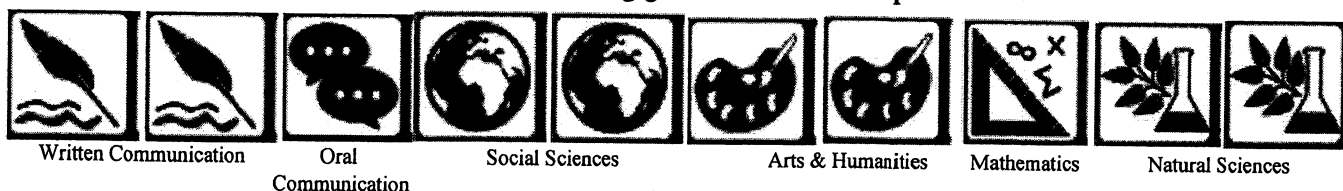
Requirement for some majors.  
*(See page 3)*

In most cases, it is best for high school students to exhaust the math curriculum at their high school before moving on to dual credit math courses.

Sciences courses should be completed in sequence. Often, students looking to major in science-based majors are better served by taking lab science courses face-to-face in an actual lab, so dual credit may not be the best option for some students.

Depending upon the field and school, the natural science requirements for degree programs may vary. It is recommended that students confirm what courses are needed to complete their desired degree.

These course recommendations fulfill the following general education requirements:



# COURSE OPTIONS FOR STUDENTS EXPLORING DEGREES IN ENGINEERING, TECHNOLOGY & MATH

Reduce the time to graduation by only taking the courses necessary to complete a degree. Below is a list of possible courses to fulfill general education requirements for students exploring careers in engineering, technology, or math.

Consult university advisors at the university you plan to attend for appropriate placement based on test scores, high school preparation & potential major.



## **Goal #1: Written Communication** *(Students must take two courses, including ENGL 101)*

- ENGL 101—Composition I *(If attending SDSMT, only ENGL 101 is needed)*
- ENGL 201—Composition II
- ENGL 283—Introduction to Creative Writing



## **Goal #2: Oral Communication**

- SPCM 101—Fundamentals of Speech *(Course not needed if attending SDSMT)*



## **Goal #3 Social Sciences** *(Pick 2 courses from two different disciplines.)*

- |   |                                     |
|---|-------------------------------------|
| • CJUS 201—Introduction to Criminal Justice | • POLS 100—American Government      |
| • ECON 201—Principles of Microeconomics     | • POLS 250—World Politics           |
| • ECON 202—Principles of Macroeconomics     | • PSYC 101—General Psychology       |
| • EPSY 210/HDFS 210—Lifespan Development    | • SOC 100—Introduction to Sociology |
| • HIST 151—United States History I          | • SOC 150—Social Problems           |
| • HIST 152—United States History II         |                                     |



## **Goal #4: Arts & Humanities** *(Pick 2 courses from two different disciplines)*

- |                                       |   |
|---------------------------------------|---|
| • ART 111—Drawing I                   | • HIST 121—Western Civilization I       |
| • ART 121—Design I 2D                 | • HIST 122—Western Civilization II      |
| • ARTH 100—Art Appreciation           | • MCOM 151—Intro to Mass Communications |
| • ARTH 211—History of World Art I     | • PHIL 220—Introduction to Ethics*      |
| • ARTH 212—History of World Art II    | • REL 250—World Religions               |
| • ENGL 210—Introduction to Literature | • GFA 101—Introduction to Fine Arts     |
| • HIST 111—World Civilization I       | • MUS 100—Music Appreciation            |
| • HIST 112—World Civilization II      | • THEA 100—Introduction to Theatre      |
|                                       | • THEA 201—Film Appreciation            |



## **Goal #5: Mathematics**

- |   |  |
|---|--|
| • MATH 102—College Algebra <i>(or appropriate math course based on placement)</i> | • MATH 123—Calculus I                          |
| • MATH 115—Precalculus  | • MATH 125—Calculus II                         |
| • MATH 120—Trigonometry   | • MATH 281/STAT 281—Introduction to Statistics |

In most cases, it is best for high school students to exhaust the math curriculum at their high school before moving on to Dual Credit math courses. By gaining basic skills in upper-level high school courses such as calculus/trigonometry, students will be better prepared



## **Goal #6: Natural Sciences** *(Students will need at least 6 credits)*

- |  |   |
|--|---|
| • BIOL 101/L—Biology Survey I & Lab              | • ESCI 103/L—Earth and Life Through Time & Lab  |
| • BIOL 103/L—Biology Survey II & Lab             | • PHYS 101/L—Survey of Physics & Lab            |
| • BIOL 151/L—General Biology I & Lab             | • PHYS 111/L—Introduction to Physics I & Lab    |
| • BIOL 153/L—General Biology II & Lab            | • PHYS 113/L—Introduction to Physics II & Lab   |
| • CHEM 106/L—Chemistry Survey & Lab              | • PHYS 211/L—University Physics I & Lab         |
| • CHEM 107/L—Organic & Biochemistry Survey & Lab | • PHYS 213/L—University Physics II & Lab        |
| • CHEM 112/L—General Chemistry I & Lab           | • PHYS 185/L—Introduction to Astronomy I & Lab  |
| • CHEM 114/L—General Chemistry II & Lab          | • PHYS 187/L—Introduction to Astronomy II & Lab |
| • ESCI 101/L—Dynamic Earth & Lab                 |   |

Consulting university advisors is critical for determining which science sequence will be best for your desired major. Sciences courses should be completed in sequence.

Often, students looking to major in science-based majors are better served by taking lab science courses face-to-face in an actual lab, so dual credit may not be the best option for some students.